



# The Master of Science in Product Design and Manufacturing: Non-Thesis Program Planning Sheet

Student Name: \_\_\_\_\_ BU ID# \_\_\_\_\_

Email Address: \_\_\_\_\_

Advisor Name: \_\_\_\_\_

Expected Graduation Date: \_\_\_\_\_

## 1) Core Requirements - 16 credits

<u>Course #</u>	<u>Course Name</u>	<u>Credits</u>	<u>Semester/Year</u>	<u>Grade</u>
ME 690 <sup>1</sup>	Advanced Product Design	4	Fall _____	_____
ME 510*	Production Systems Analysis	4	Fall _____	_____
ME 690 <sup>1</sup>	Advanced Product Design	4	Spring _____	_____
ME 584*	Manufacturing & Supply Chain Strategy	4	Spring _____	_____

## 2) Design & Manufacturing Requirement - 8 credits

<u>Course #</u>	<u>Course Name</u>	<u>Credits</u>	<u>Semester/Year</u>	<u>Grade</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

## 3) Engineering / Physical Science Elective - 4 credits

<u>Course #</u>	<u>Course Name</u>	<u>Credits</u>	<u>Semester/Year</u>	<u>Grade</u>
_____	_____	_____	_____	_____

## 4) Practicum - 4 credits

<u>Course #</u>	<u>Course Name</u>	<u>Credits</u>	<u>Semester/Year</u>	<u>Grade</u>
_____	_____	_____	_____	_____

Approved By:

\_\_\_\_\_  
Advisor Signature                      Date

\_\_\_\_\_  
Student Signature                      Date

## **The Master of Science in Product Design and Manufacture without Thesis Curricular Requirements**

*The program requires 32 credit hours at the 500-level or above. At least 20 credits must be ME courses. At least 24 credits must be taken at Boston University. To graduate, a cumulative grade point average of at least 3.0 (B) must be attained.*

*If necessary, student can take more than 32 credits and drop the lowest grade. Grades of C- or lower are not acceptable for master's degrees under any circumstance. Successful completion of a 3-credit course in either the College of Arts and Sciences or the Questrom School of Business does not obviate the need to complete 32 credits. Students are permitted to take a single course multiple times to achieve the GPA requirement, but will only receive 4 credits if used against the degree requirements.*

### **1. Design and Manufacture Electives (8 credits)**

Each student must complete two 500-level or above courses in Design and Manufacturing to fulfill the Design and Manufacture Requirement.

#### **Fall Courses**

ME 502 Intellectual Assets \*  
ME 517 Product Development\*  
ME 555 MEMs: Fabrication and  
Materials  
ME 579 Nano/Microelectronic Device  
Manufacturing\*  
BE 695 Advanced Biomedical Design  
and Development <sup>2</sup>

#### **Spring Courses**

ME 507 Process Modeling and  
Control\*  
ME 518 Product Quality\*  
ME 526 Simulation of Physical  
Processes\*  
BE 695 Advanced Biomedical Design  
and Development <sup>2</sup>

### **2. Engineering and Physical Science Requirement (4 credits)**

Each student must complete one graduate-level course in engineering and/or physical sciences to fulfill the Elective Requirement<sup>3</sup>. These courses may be taken in any department or division of the College of Engineering or in the College of Arts and Sciences. (Note, however, that most CAS courses are 3 credits.) The advisor's approval must be obtained to count any course towards the Elective Requirement.

### **3. Practicum Requirement<sup>#</sup> (4 credits)**

Each student must complete one course to fulfill the Practicum Requirement. The Practicum Courses are:

#### **Fall**

ME 560 Precision Machine Design\*

#### **Spring**

ME 606 Industrial Practicum\*  
EK 691 Lean and Agile New Product  
Development<sup>4</sup>

**Notes:**

1. ME 690 is a two semester course.
2. BE 695 is an 8 credit course that may only be taken upon availability and permission of the instructor.
3. Excluding ME 502, ME 517.
4. EK 691 is offered both semesters, however the degree requires ME 690 as a prerequisite

\* Denotes class offered via distance learning.

# Additional practicum courses may also be used to fulfill the elective requirement.